

# Inline Strainers

Today's processing pipe lines require strainers with an increased capacity to meet production needs of state-of-the-art Food, Beverage and Pharmaceutical manufacturing facilities.

Rubber Fab's sanitary strainers protect valuable processing equipment (pumps, spray nozzles, needle valves, heat exchangers and homogenizers) and have been specifically designed to meet the most stringent process requirements. Our sanitary strainer products are manufactured using 316L stainless steel and are designed for maximum installation flexibility, sanitary construction, and unrestricted flow.

Rubber Fab's Hi Capacity sanitary strainers feature a machined neck line, instead of a spun neckline; a design improvement that allows higher operating pressures and greater product out. Our Hi Capacity strainers also provide triple the effective filter area as standard Inline and Side Inlet units; increasing run time, and reducing costly down-time.

Rubber Fab's Inline and Side Inlet sanitary strainers are available in single length and double length models, both providing cost effective filtration. Rubber Fab's strainer housing accepts a wide range of re-usable strainer elements, wire mesh overscreens, sks overscreens, wedge wire and disposable filter socks. Rubber Fab's Side Inlet sanitary strainers use the same wire mesh overscreens and filter socks as the Inline units. The Side Inlet, however, is specially designed to accommodate piping configurations using a side inlet.

Rubber Fab's wire Mesh basket liners are continuously resistance spot welded inside the perforated support basket, providing a snag free seam. When in use the mesh lined perforated basket strainer seats on a machined neckline inside the housing and the strainer bucket's handle rests against the underside of the top cover. This design ensures that product cannot bypass the mesh lined strainer basket.



# Inline Strainer Components

Complete Strainer Assemblies	Item # 1" TC Size	Item # 1 1/2" TC Size	Item # 2" TC Size	Item # 2 1/2" TC Size	Item # 3" TC Size
Single Length (15 3/4") 1/8" Holes	RFILS-100-S-.125-316	RFILS-150-S-.125-316	RFILS-200-S-.125-316	RFILS-250-S-.125-316	RFILS-300-S-.125-316
Double Length (35 3/8") 1/8" Holes	RFILS-100-D-.125-316	RFILS-150-D-.125-316	RFILS-200-D-.125-316	RFILS-250-D-.125-316	RFILS-300-D-.125-316
Single Length (15 3/4") 1/4" Holes	RFILS-100-S-.250-316	RFILS-150-S-.250-316	RFILS-200-S-.250-316	RFILS-250-S-.250-316	RFILS-300-S-.250-316
Double Length (15 3/4") 1/4" Holes	RFILS-100-S-.250-316	RFILS-150-S-.250-316	RFILS-200-S-.250-316	RFILS-250-S-.250-316	RFILS-300-S-.250-316

Strainer Individual Components*	Item # 1" TC Size	Item # 1 1/2" TC Size	Item # 2" TC Size	Item # 2 1/2" TC Size	Item # 3" TC Size
A - Outlet Assembly	RFILS-100-OCAP-316L	RFILS-150-OCAP-316L	RFILS-200-OCAP-316L	RFILS-250-OCAP-316L	RFILS-300-OCAP-316L
B - Sanitary TC Gasket (Buna)	40MPU-400	40MPU-400	40MPU-400	40MVFU-400	40MVFU-400
B - Sanitary TC Gasket (FKM)	40MPSFY-400	40MPSFY-400	40MPSFY-400	40MVFSFY-400	40MVFSFY-400
B - Sanitary TC Gasket (EPDM)	40MPE-400	40MPE-400	40MPE-400	40MPFE-400	40MPFE-400
C - Clamp	13MHM-304-400	13MHM-304-400	13MHM-304-400	13MHM-V-304-400	13MHM-V-304-400

Strainer Individual Components** D - Perforated Core	Item # 1" TC Size	Item # 1 1/2" TC Size	Item # 2" TC Size
3" Dia (Single Length 15 3/4") 1/8" Dia Holes	RFILS-100-PC-S-.125-316L	RFILS-150-PC-S-.125-316L	RFILS-200-PC-S-.125-316L
3" Dia (Single Length 15 3/4") 1/4" Dia Holes	RFILS-100-PC-S-.250-316L	RFILS-150-PC-S-.250-316L	RFILS-200-PC-S-.250-316L
3" Dia (Double Length 35 3/8") 1/8" Dia Holes	N/A	RFILS-150-PC-D-.125-316L	RFILS-200-PC-D-.125-316L
3" Dia (Double Length 35 3/8") 1/4" Dia Holes	N/A	RFILS-150-PC-D-.250-316L	RFILS-200-PC-D-.250-316L

Strainer Individual Components** D - Perforated Core	Item # 2 1/2" TC Size	Item # 3" TC Size
3.5" Dia (Single Length 15 3/4") 1/8" Dia Holes	RFILS-250-PC-S-.125-316L	RFILS-300-PC-S-.125-316L
3.5" Dia (Single Length 15 3/4") 1/4" Dia Holes	RFILS-250-PC-S-.250-316L	RFILS-300-PC-S-.250-316L
3.5" Dia (Double Length 35 3/8") 1/8" Dia Holes	RFILS-250-PC-D-.125-316L	RFILS-300-PC-D-.125-316L
3.5" Dia (Double Length 35 3/8") 1/4" Dia Holes	RFILS-250-PC-D-.250-316L	RFILS-300-PC-D-.250-316L

Strainer Individual Components*	Item # 1" TC Size	Item # 1 1/2" TC Size	Item # 2" TC Size	Item # 2 1/2" TC Size	Item # 3" TC Size
E - Distributor Cap	RFILS-100-DCAP-316L	RFILS-150-DCAP-316L	RFILS-200-DCAP-316L	RFILS-250-DCAP-316L	RFILS-300-DCAP-316L
F - Spring	RFICS-100-SPR-316L	RFICS-100-SPR-316L	RFICS-100-SPR-316L	RFICS-100-SPR-316L	RFICS-100-SPR-316L
G - Filter Body (Single Length 15 3/4")	RFILS-100-FBDY-S-316L	RFILS-150-FBDY-S-316L	RFILS-200-FBDY-S-316L	RFILS-250-FBDY-S-316L	RFILS-300-FBDY-S-316L
G - Filter Body (Double Length 35 3/8")	RFILS-100-FBDY-D-316L	RFILS-150-FBDY-D-316L	RFILS-200-FBDY-D-316L	RFILS-250-FBDY-D-316L	RFILS-300-FBDY-D-316L

\* See labeled strainer components on page 28. For Side Inlet Strainer Part Numbers, please consult factory.

# Inline Strainer Wire Mesh Over Screens

1", 1 1/2" and 2" Sanitary Tri-Clamp® Gasket Line Sizes

Nominal Dimensions: Single Length 3" dia x 10 7/8" long • Double Length: 3" dia x 30 3/4" long

Material: 316L SS Total Over Screen Surface Area					(102.49 SQ. IN.)	(289.81 SQ. IN.)
Mesh	Wire Dia (Inches)	Opening Size (Inches)	Opening Size (Microns)	Open Area %	Single Length	Double Length
10 x 10	0.025	0.075	1905	56.30	RFILS-1/1.5/2-OS-S-10SS	RFILS-1/1.5/2-OS-D-10SS
12 x 12	0.023	0.060	1524	51.80	RFILS-1/1.5/2-OS-S-12SS	RFILS-1/1.5/2-OS-D-12SS
14 x 14	0.020	0.051	1295	51.00	RFILS-1/1.5/2-OS-S-14SS	RFILS-1/1.5/2-OS-D-14SS
16 x 16	0.018	0.045	1130	50.70	RFILS-1/1.5/2-OS-S-16SS	RFILS-1/1.5/2-OS-D-16SS
18 x 18	0.017	0.039	980	48.30	RFILS-1/1.5/2-OS-S-18SS	RFILS-1/1.5/2-OS-D-18SS
20 x 20	0.016	0.034	864	46.20	RFILS-1/1.5/2-OS-S-20SS	RFILS-1/1.5/2-OS-D-20SS
24 x 24	0.014	0.028	704	44.20	RFILS-1/1.5/2-OS-S-24SS	RFILS-1/1.5/2-OS-D-24SS
30 x 30	0.013	0.020	516	37.10	RFILS-1/1.5/2-OS-S-30SS	RFILS-1/1.5/2-OS-D-30SS
40 x 40	0.010	0.015	381	36.00	RFILS-1/1.5/2-OS-S-40SS	RFILS-1/1.5/2-OS-D-40SS
50 x 50	0.009	0.011	280	30.30	RFILS-1/1.5/2-OS-S-50SS	RFILS-1/1.5/2-OS-D-50SS
60 x 60	0.008	0.009	234	30.50	RFILS-1/1.5/2-OS-S-60SS	RFILS-1/1.5/2-OS-D-60SS
80 x 80	0.006	0.007	178	31.40	RFILS-1/1.5/2-OS-S-80SS	RFILS-1/1.5/2-OS-D-80SS
100 x 100	0.005	0.006	140	30.30	RFILS-1/1.5/2-OS-S-100SS	RFILS-1/1.5/2-OS-D-100SS
120 x 120	0.004	0.005	117	30.70	RFILS-1/1.5/2-OS-S-120SS	RFILS-1/1.5/2-OS-D-120SS
150 x 150	0.003	0.004	104	37.40	RFILS-1/1.5/2-OS-S-150SS	RFILS-1/1.5/2-OS-D-150SS
200 x 200	0.002	0.003	74	33.60	RFILS-1/1.5/2-OS-S-200SS	RFILS-1/1.5/2-OS-D-200SS

2 1/2" and 3" Sanitary Tri-Clamp® Gasket Line Sizes

Nominal Dimensions: Single Length 3" dia x 10 7/8" long • Double Length: 3" dia x 30 3/4" long

Material: 316L SS Total Over Screen Surface Area					(119.57 SQ. IN.)	(388.00 SQ. IN.)
Mesh	Wire Dia (Inches)	Opening Size (Inches)	Opening Size (Microns)	Open Area %	Single Length	Double Length
10 x 10	0.025	0.075	1905	56.30	RFILS-2.5/3-OS-S-10SS	RFILS-2.5/3-OS-D-10SS
12 x 12	0.023	0.060	1524	51.80	RFILS-2.5/3-OS-S-12SS	RFILS-2.5/3-OS-D-12SS
14 x 14	0.020	0.051	1295	51.00	RFILS-2.5/3-OS-S-14SS	RFILS-2.5/3-OS-D-14SS
16 x 16	0.018	0.045	1130	50.70	RFILS-2.5/3-OS-S-16SS	RFILS-2.5/3-OS-D-16SS
18 x 18	0.017	0.039	980	48.30	RFILS-2.5/3-OS-S-18SS	RFILS-2.5/3-OS-D-18SS
20 x 20	0.016	0.034	864	46.20	RFILS-2.5/3-OS-S-20SS	RFILS-2.5/3-OS-D-20SS
24 x 24	0.014	0.028	704	44.20	RFILS-2.5/3-OS-S-24SS	RFILS-2.5/3-OS-D-24SS
30 x 30	0.013	0.020	516	37.10	RFILS-2.5/3-OS-S-30SS	RFILS-2.5/3-OS-D-30SS
40 x 40	0.010	0.015	381	36.00	RFILS-2.5/3-OS-S-40SS	RFILS-2.5/3-OS-D-40SS
50 x 50	0.009	0.011	280	30.30	RFILS-2.5/3-OS-S-50SS	RFILS-2.5/3-OS-D-50SS
60 x 60	0.008	0.009	234	30.50	RFILS-2.5/3-OS-S-60SS	RFILS-2.5/3-OS-D-60SS
80 x 80	0.006	0.007	178	31.40	RFILS-2.5/3-OS-S-80SS	RFILS-2.5/3-OS-D-80SS
100 x 100	0.005	0.006	140	30.30	RFILS-2.5/3-OS-S-100SS	RFILS-2.5/3-OS-D-100SS
120 x 120	0.004	0.005	117	30.70	RFILS-2.5/3-OS-S-120SS	RFILS-2.5/3-OS-D-120SS
150 x 150	0.003	0.004	104	37.40	RFILS-2.5/3-OS-S-150SS	RFILS-2.5/3-OS-D-150SS
200 x 200	0.002	0.003	74	33.60	RFILS-2.5/3-OS-S-200SS	RFILS-2.5/3-OS-D-200SS

Rubber Fab Hygienic (HYG) Over Screens are comparable to traditional Wire Mesh Screens. The Hygienic Over Screens have similar opening sizes and open area percentages as wire mesh only Hygienic Over Screens are punched from stainless steel sheeting instead of stainless steel woven wire. Wire Mesh Screens have wire intersections, the wires touch each other where they intersect. The Hygienic Over Screen has no wire intersections.

# Hygienic (HYG) Wire Mesh Over Screens

1", 1 1/2" and 2" Sanitary Tri-Clamp® Gasket Line Sizes

Nominal Dimensions: Single Length 3" dia x 10 7/8" long • Double Length: 3" dia x 30 3/4" long

Material: 316L SS Total Over Screen Surface Area										(102.49 SQ. IN.)	(289.81 SQ. IN.)
Mesh	Wire Dia (Inches)	Opening Size (Inches)	Opening Size (Microns)	Open Area %	HYG Product	Opening Size (Inches)	Opening Size (Microns)	Material Thickness	Open Area %	Single Length	Double Length
12 x 12	0.023	0.060	1524	51.80	HYG-12	0.060	1499	0.020	52.00	RFILS-1/1.5/2-OSHYG-S-12SS	RFILS-1/1.5/2-OSHYG-D-12SS
14 x 14	0.020	0.051	1295	51.00	HYG-14	0.518	1316	0.020	50.00	RFILS-1/1.5/2-OSHYG-S-14SS	RFILS-1/1.5/2-OSHYG-D-14SS
16 x 16	0.018	0.045	1130	50.70	HYG-16	0.045	1148	0.024	48.00	RFILS-1/1.5/2-OSHYG-S-16SS	RFILS-1/1.5/2-OSHYG-D-16SS
18 x 18	0.017	0.039	980	48.30	HYG-18	0.039	998	0.016	46.00	RFILS-1/1.5/2-OSHYG-S-18SS	RFILS-1/1.5/2-OSHYG-D-18SS
20 x 20	0.016	0.034	864	46.20	HYG-20	0.033	848	0.016	47.00	RFILS-1/1.5/2-OSHYG-S-20SS	RFILS-1/1.5/2-OSHYG-D-20SS
24 x 24	0.014	0.028	704	44.20	HYG-24	0.030	749	0.016	45.00	RFILS-1/1.5/2-OSHYG-S-24SS	RFILS-1/1.5/2-OSHYG-D-24SS
30 x 30	0.013	0.020	516	37.10	HYG-30	0.022	549	0.012	40.00	RFILS-1/1.5/2-OSHYG-S-30SS	RFILS-1/1.5/2-OSHYG-D-30SS
40 x 40	0.010	0.015	381	36.00	HYG-40	0.016	399	0.012	38.00	RFILS-1/1.5/2-OSHYG-S-40SS	RFILS-1/1.5/2-OSHYG-D-40SS
70 x 70	0.007	0.008	198	29.80	HYG-70	0.008	198	0.005	28.00	RFILS-1/1.5/2-OSHYG-S-70SS	RFILS-1/1.5/2-OSHYG-D-70SS
80 x 80	0.006	0.007	178	31.40	HYG-80	0.007	178	0.005	26.00	RFILS-1/1.5/2-OSHYG-S-80SS	RFILS-1/1.5/2-OSHYG-D-80SS
100 x 100	0.005	0.006	140	30.30	HYG-100	0.005	132	0.004	24.00	RFILS-1/1.5/2-OSHYG-S-100SS	RFILS-1/1.5/2-OSHYG-D-100SS

2 1/2" and 3" Sanitary Tri-Clamp® Gasket Line Sizes

Nominal Dimensions: Single Length 3" dia x 10 7/8" long • Double Length: 3" dia x 30 3/4" long

Material: 316L SS Total Over Screen Surface Area										(102.49 SQ. IN.)	(289.81 SQ. IN.)
Mesh	Wire Dia (Inches)	Opening Size (Inches)	Opening Size (Microns)	Open Area %	HYG Product	Opening Size (Inches)	Opening Size (Microns)	Material Thickness	Open Area %	Single Length	Double Length
12 x 12	0.023	0.060	1524	51.80	HYG-12	0.059	1499	0.020	52.00	RFILS-2.5/3-OSHYG-S-12SS	RFILS-2.5/3-OSHYG-D-12SS
14 x 14	0.020	0.051	1295	51.00	HYG-14	0.052	1316	0.020	50.00	RFILS-2.5/3-OSHYG-S-14SS	RFILS-2.5/3-OSHYG-D-14SS
16 x 16	0.018	0.045	1130	50.70	HYG-16	0.045	1148	0.024	48.00	RFILS-2.5/3-OSHYG-S-16SS	RFILS-2.5/3-OSHYG-D-16SS
18 x 18	0.017	0.039	980	48.30	HYG-18	0.039	998	0.016	46.00	RFILS-2.5/3-OSHYG-S-18SS	RFILS-2.5/3-OSHYG-D-18SS
20 x 20	0.016	0.034	864	46.20	HYG-20	0.033	848	0.016	47.00	RFILS-2.5/3-OSHYG-S-20SS	RFILS-2.5/3-OSHYG-D-20SS
24 x 24	0.014	0.028	704	44.20	HYG-24	0.030	749	0.016	45.00	RFILS-2.5/3-OSHYG-S-24SS	RFILS-2.5/3-OSHYG-D-24SS
30 x 30	0.013	0.020	516	37.10	HYG-30	0.022	549	0.012	40.00	RFILS-2.5/3-OSHYG-S-30SS	RFILS-2.5/3-OSHYG-D-30SS
40 x 40	0.010	0.015	381	36.00	HYG-40	0.016	399	0.012	38.00	RFILS-2.5/3-OSHYG-S-40SS	RFILS-2.5/3-OSHYG-D-40SS
70 x 70	0.007	0.008	198	29.80	HYG-70	0.008	198	0.005	28.00	RFILS-2.5/3-OSHYG-S-70SS	RFILS-2.5/3-OSHYG-D-70SS
80 x 80	0.006	0.007	178	31.40	HYG-80	0.007	178	0.005	26.00	RFILS-2.5/3-OSHYG-S-80SS	RFILS-2.5/3-OSHYG-D-80SS
100 x 100	0.005	0.006	140	30.30	HYG-100	0.005	132	0.004	24.00	RFILS-2.5/3-OSHYG-S-100SS	RFILS-2.5/3-OSHYG-D-100SS